

BALLOON CATHETER DESIGNS WHICH INCORPORATE  
AN ANTENNA COOPERATIVELY SITUATED WITH RESPECT  
TO AN EXTERNAL BALLOON SURFACE FOR USE IN  
TREATING DISEASED TISSUE OF A PATIENT

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ABSTRACT OF THE DISCLOSURE

In a first embodiment, the antenna cooperatively situated with respect to an external surface of the balloon of a balloon catheter has a spiral configuration, which renders this external antenna highly directional. This 10 first embodiment of balloon catheter is shown inserted in the urethra of a patient in a system for irradiating his prostatic tumor and measuring the tumor's temperature with a radiometer. In a second embodiment, the antenna cooperatively situated with respect to an external surface of the 15 balloon of a balloon catheter has a helical configuration, which renders this external antenna omnidirectional.